

Indiana adopted the Common Core State Standards in the area of Mathematics, as well as English Language Arts and Literacy in History/Social Studies, Science, and Technical Subjects. For further information regarding the Common Core State Standards and the College and Career Readiness anchor standards in literacy please see the Common Core documents for the respective content areas. The Reading and Writing Standards for Literacy in Science are presented in grade-level bands. Students at the beginning of a grade-band continuum will require a blend of scaffolding and direct, explicit instruction. By the end of the grade-band continuum, students should demonstrate proficiency of the literacy standards independently.

The grades 6-8 standards below define what students should understand and be able to do by end of 8th grade. These are to serve as a complement to the specific content demands of the science standards and be taught as skills that allow students to communicate and comprehend the science content.

Students need to develop the skills that allow them to read complex informational science texts with independence and confidence. Students need to build an appreciation of the norms and conventions of reading in science, an understanding of domain-specific words and phrases, an attention to precise details, the capacity to evaluate detailed arguments, synthesize complex information and follow detailed descriptions and procedures. Students need to be able to gain knowledge from challenging texts that make use of elaborate diagrams and data to convey information and illustrate concepts.

Key Ideas and Details

- 6-8.RS.1** Cite specific textual evidence to support analysis of science texts.
- 6-8.RS.2** Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.
- 6-8.RS.3** precisely a multistep procedure when carrying out experiments or taking measurements.

Craft and Structure

- 6-8.RS.4** Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific context relevant to *grades 6-8 texts and topics*.
- 6-8.RS.5** Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.
- 6-8.RS.6** Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.

Integration of Knowledge and Ideas

- 6-8.RS.7** Integrate quantitative information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).
- 6-8.RS.8** Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.

- 6-8.RS.9** Compare and contrast the information gained from experiments, simulations, video or multimedia sources with that gained from reading a text on the same topic.

Range of Reading and Level of Text Complexity

- 6-8.RS.10** By the end of grade 8 read and comprehend science texts in the grades 6-8 text complexity band independently and proficiently.